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# BIOL 430

Winter Term (2021)

## CALENDAR DESCRIPTION

**Labs: See SOLUS for a list of various lab times. BIOSCI.**

<b>Instructor</b>	Ian Chin-Sang
<b>Instructor Contact</b>	chinsang@queensu.ca
<b>Office Hours</b>	TBA
<b>TA: TBA</b>	See Course Website
<b>TA Contact Information</b>	See Course Website
<b>Office Hours</b>	TBA

### Learning Objectives

The goals of BIOL430 are to:

- Discuss the history of the study of embryonic development and how the basic concepts were formulated to develop a conceptual framework for the study of developmental biology.
- Compare and differentiate the major model organisms used to understand development at the genetic and molecular level.
- Discuss, evaluate and critique biological findings and ideas by reading and synthesizing results from the primary scientific literature, assessing their credibility, broad significance, and the limits to inference to gain experience in the writing of clear, concise and integrated reports
- Develop hypothesis-driven experiments to explain cellular behaviour to gain practical skills and methodologies used to understand how organisms develop.
- Summarize biological questions, concepts and results to a variety of audiences in written, oral and visual forms to improve your writing and communication skills.
- Prepare high-quality, synthetic and incisively written and oral projects, applying strategies for time management and collaboration to develop your ability to work individually and on a team

### Learning Hours

<i>Teaching method</i>		<i>Average hours per week</i>	<i>Number of weeks</i>	<i>Total hours</i>
L	Lecture	3	6	18
	Seminar	3	6	18

	Laboratory	NA		
	Tutorial	NA		
	Practicum	NA		
	Group learning	3	12	
	Individual instruction			
Other	Online activity			
	Off-campus activity			
	Private study			
Total hours on task				

### **Course Outline**

<< A short list of the major topics covered in the course may be provided here. Keeping the topics general will create a more enduring syllabus, but it is up to you to fill in. The coordinator may wish to refer to the course website or to Moodle for details>>

### **Textbooks/Readings**

Please see the onQ course website.

### **Grading Scheme**

<b>Component</b>	<b>Weight (%)</b>	<b>Date</b>
Quizzes	10%	Jan. -March
Midterm Exam	25%	TBD
Seminar	25%	Feb.- April
Critique/Participation	10%	Jan. -April
Final Exam	30%	TBD

### **Grading Method**

- All components of this course will receive numerical percentage marks. The final grade you receive for the course will be derived by converting your numerical course average to a letter grade according to Queen's Official Grade Conversion Scale.

When letter grades are employed, the following scale will be employed for purposes of calculating your course average:

#### ***Arts & Science Letter Grade Input Scheme***

<b>Assignment mark</b>	<b>Numerical value for calculation of final mark</b>
A+	93
A	87
A-	82
B+	78
B	75

B-	72
C+	68
C	65
C-	62
D+	58
D	55
D-	52
F48 (F+)	48
F24 (F)	24
F0 (0)	0

Your course average will then be converted to a final letter grade according to Queen's Official Grade Conversion Scale:

***Queen's Official Grade Conversion Scale***

<b>Grade</b>	<b>Numerical Course Average (Range)</b>
A+	90-100
A	85-89
A-	80-84
B+	77-79
B	73-76
B-	70-72
C+	67-69
C	63-66
C-	60-62
D+	57-59
D	53-56
D-	50-52
F	49 and below

**Academic Integrity and Queen's Code of Conduct**

Students are responsible for familiarizing themselves with the regulations concerning academic integrity and for ensuring that their assignments and conduct conform to the principles of academic integrity. Information is available in the Arts and Science Calendar (see Academic Regulation 1 - <http://www.queensu.ca/artsci/academic-calendars/regulations/academic-regulations>, on the Arts and Science website (see <http://www.queensu.ca/artsci/academics/undergraduate/academic-integrity>), and at Biology's website (<http://www.queensu.ca/biology/undergrad/integrity.html>) and from the instructor of this course. Departures from academic integrity include plagiarism, use of unauthorized materials, facilitation, forgery and falsification, and are antithetical to the development of an academic community at Queen's. Given the seriousness of these matters, actions which contravene the regulations on academic integrity carry sanctions that can range from a warning or the loss of grades on an assignment to the failure of a course to a requirement to withdraw from the university.

**Accommodation Policy, Exam Conflicts, and Other Conflicts**

Students who feel they need accommodations for disabilities or extenuating circumstances, or have a conflict between exams or other commitments should consult the Biology Department's website for details

about how to proceed (<http://www.queensu.ca/biology/undergrad/integrity.html>). In general, the earlier a course coordinator is apprised of an extenuating circumstance, the more likely an accommodation can be made. Students are encouraged to be proactive in anticipating difficulties, when it is possible to do so.

Students may apply to write a make-up or deferred exam if they have an exam conflict as defined in the Academic Regulations of the Faculty (See Arts and Science Calendar Regulation 8 - <http://www.queensu.ca/artsci/academic-calendars/regulations/academic-regulations>). In this case, the student should report to the Exams Office first to verify that there is a genuine exam conflict. Biology professors will not consider your situation to be a conflict unless it meets the criteria set out by the Faculty of Arts and Sciences.

Students may request a make-up or deferred exam if they have an exam conflict with off-campus travel associated with a field course (e.g BIOL-307/3.0 or 407/3.0) that is held during the fall or winter terms.

### **Copyright**

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### **Accommodation of Disabilities**

*Queen's University is committed to achieving full accessibility for persons with disabilities. Part of this commitment includes arranging academic accommodations for students with disabilities to ensure they have an equitable opportunity to participate in all of their academic activities. If you are a student with a disability and think you may need accommodations, you are strongly encouraged to contact the Disability Services Office (DSO) and register as early as possible. For more information, including important deadlines, please visit the DSO website at: <http://www.queensu.ca/hcds/ds/>*